10/762,823

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	30380	(707/1-6,10,102,104.1).CCLS.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/06/12 09:43
L2	2983	(709/201,216).CCLS.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/06/12 09:43
L3	32857	1 or 2	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:43
L4	0	3 and (partiton$4 with range$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:44
L5	0	3 and (partiton$4 same range$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:44
L6	391	3 and (partition$4 with range$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:44
L7	4752	3 and (partition$4 samerange$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:44
L8	573	3 and (partition$4 same range$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:44

EAST Search History

L9	5	3 and ((partition$4 with range$3) same (next near partition$4))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:48
L10	6	3 and ((partition$4 with range$3) same (search near engine))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:50
L11	6	((partition$4 with range$3) same (search near engine))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:50
L12	125	((partition$4 with range$3) and (search near engine))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:50
L13	249	((partition$4 same range$3) and (search near engine))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:50
L14	3	((partition$4 same range$3) and (search near engine)) and (static near rank$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:51
L15	3	partition$4 same static near rank$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:53
L16	10750	707/3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:53

EAST Search History

L17	8359	(707/3).CCLS.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/06/12 09:53
L18	0	17 and partition43	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:53
L19	1235	17 and partition$4	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:54
L20	339	19 and rank$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:54
L21	1	19 and (rank$320 and static near rank$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:56
L22	858	partition same rank$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:56
L23	39	partition near rank$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:57
L24	25	23 and @ad<"20040122"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:00

EAST Search History

L25	0	(serach near engine) same quer$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:00
L26	6534	(search near engine) same quer$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:00
L27	0	((search near engine) same quer$3) and (partition43 same index$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:01
L28	178	((search near engine) same quer$3) and (partition$3 same index$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:02
L29	115	((search near engine) same quer$3) and (partition$3 same index$3)and @ad<"20040122"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:02
L30	18047803	((search near engine) same quer$3) and (partition$3 same index$3) and score$4and @ad<"20040122"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:02
L31	65	((search near engine) same quer$3) and (partition$3 same index$3) and score$4 and @ad<"20040122"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:13
L32	14	next near (partiton or tier) same (rank$3 or scor$4)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:14

EAST Search History

L33	5	next near (partiton or tier) same (rank$3 or scor$4)and @ad<"20040122"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:19
L34	0	("5787435.pn.").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/06/12 10:20
L35	2	"5787435".pn.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:20
L36	431	search$3 near partition$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:21
L37	0	search$3 near partition$3 same idex$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:26
L38	36	search$3 near partition$3 same index$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:22
L39	11	search$3 near partition$3 same index$3 and rank$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:22
L40	586159	search$3 near next (partition$3 or tier)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:27

EAST Search History

L41	4	search$3 near next near (partition$3 or tier)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:28
L42	85	range same static same rank$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:29
L43	0	(range same static same rank$3) same (partition$3 or tier)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:29
L44	15	(range same static same rank$3) same (partition$3 or level or tier)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:30
L45	59	(range same static same rank$3) and (partition$3 or level or tier)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:30
L46	44	45 not 44	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:31
L47	129	index near partitioning	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:31
L48	45	index near partitioning and (rank$4)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:32

EAST Search History

L49	42	index near partitioning and (rank$4)and @ad<"20040122"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:35
L50	38	index near partitioning and (rank$4)and @ad<"20040122" and range	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:35
L51	0	index near partitioning near range and (rank$4)and @ad<"20040122" and range	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:35
L52	0	index near partitioning near range and (rank$4)and @ad<"20040122"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:36
L53	1	(range$3 near3 rank$3 near3 partition$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:37
L54	100	(range$3 same rank$3 same partition$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:38
L55	30	(range$3 same rank$3 same partition$3)and (scor$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:37
L56	12912	scor$3 same static same range sme rank$3 same partition	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:39

EAST Search History

L57	0	scor$3 same static same range same rank$3 same partition	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:39
L58	5	scor$3 same range same rank$3 same partition	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:41
L59	30	document near index$3 same (partition$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:50

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1 On computing functions with uncertainty

Sanjeev Khanna, Wang-Chiew Tan

May 2001 **Proceedings of the twentieth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems PODS '01**

Publisher: ACM Press

Full text available: pdf(258.62 KB) Additional Information: full citation, abstract, references, citings, index terms

We study the problem of computing a function $f(x1,..., xn)$ given that the actual values of the variables xi's are known only with some uncertainty. For each variable xi, an interval Ii is known such that the value of xi is guaranteed to fall within this interval. Any such interval can be probed to obtain the actual ...

2 Poster Session: Scalable ranking for preference queries

Ying Feng, Divyakant Agrawal, Amr El Abbadi, Ambuj Singh

October 2005 **Proceedings of the 14th ACM international conference on Information and knowledge management CIKM '05**

Publisher: ACM Press

Full text available: pdf(113.26 KB) Additional Information: full citation, abstract, references, index terms

Top-k preference queries with multiple attributes are critical for decision-making applications. Previous research has concentrated on improving the computational efficiency mainly by using novel index structures and search strategies. Since current applications need to scale to terabytes of data and thousands of users, performance of such systems is strongly impacted by the amount of available memory. This paper proposes a scalable approach for memory-bounded top-k query processin ...

Keywords: preference queries, query optimization

3 Research sessions: Research 13: Top-k queries: Answering top-k queries with multi-dimensional selections: the ranking cube approach

Dong Xin, Jiawei Han, Hong Cheng, Xiaolei Li

September 2006 **Proceedings of the 32nd international conference on Very large data bases - Volume 32 VLDB'2006**

Publisher: VLDB Endowment

Full text available: pdf(1.26 MB) Additional Information: full citation, abstract, references, index terms

Observed in many real applications, a top-k query often consists of two components to

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1 Inverted files for text search engines

Justin Zobel, Alistair Moffat

July 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 2

Publisher: ACM Press

Full text available: pdf(944.29 KB) Additional Information: full citation, abstract, references, index terms

The technology underlying text search engines has advanced dramatically in the past decade. The development of a family of new index representations has led to a wide range of innovations in index storage, index construction, and query evaluation. While some of these developments have been consolidated in textbooks, many specific techniques are not widely known or the textbook descriptions are out of date. In this tutorial, we introduce the key techniques in the area, describing both a core impl ...

Keywords: Inverted file indexing, Web search engine, document database, information retrieval, text retrieval

2 Industry track: Processing search queries in a distributed environment

Frederick Knabe, Daniel Tunkelang

November 2004 **Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04**

Publisher: ACM Press

Full text available: pdf(118.26 KB) Additional Information: full citation, abstract, references, index terms

Endeca's approach to processing search queries in a distributed computing environment is predicated on concerns of correctness, scalability, and flexibility in deployment. Using a master-slave architecture, we are able to support classic search as well as more advanced features. We avoid bottlenecking the master with excessive computation or communication by limiting the information from the slaves in the expected case.

Keywords: distributed systems, information retrieval, search

3 Querying and web: Efficient query processing in geographic web search engines

Yen-Yu Chen, Torsten Suel, Alexander Markowetz

June 2006 **Proceedings of the 2006 ACM SIGMOD international conference on**

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Justin Zobel, Alistair Moffat

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Yen-Yu Chen, Torsten Suel, Alexander Markowetz

June 2006 **Proceedings of the 2006 ACM SIGMOD international conference on Management of data SIGMOD '06**

Publisher: ACM Press

Full text available: pdf(296.76 KB) Additional Information: full citation, abstract, references, index terms

Geographic web search engines allow users to constrain and order search results in an intuitive manner by focusing a query on a particular geographic region. Geographic search technology, also called *local search*, has recently received significant interest from major search engine companies. Academic research in this area has focused primarily on techniques for extracting geographic knowledge from the web. In this paper, we study the problem of efficient query processing in scalable geogr ...

3 Shape-based retrieval and analysis of 3D models

Thomas Funkhouser, Michael Kazhdan

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(12.56 MB) Additional Information: full citation, abstract

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Justin Zobel, Alistair Moffat

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Thomas Funkhouser, Michael Kazhdan

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Publisher: ACM Press

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Justin Zobel, Alistair Moffat

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Thomas Funkhouser, Michael Kazhdan

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1 Analysis of the generalized clock buffer replacement scheme for database transaction processing

Victor F. Nicola, Asit Dan, Daniel M. Dias

June 1992 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1992 ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems SIGMETRICS '92/PERFORMANCE '92**, Volume 20 Issue 1

Publisher: ACM Press

Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, references, citings, index terms

The CLOCK algorithm is a popular buffer replacement algorithm because of its simplicity and its ability to approximate the performance of the Least Recently Used (LRU) replacement policy. The Generalized Clock (GCLOCK) buffer replacement policy uses a circular buffer and a weight associated with each page brought in buffer to decide on which page to replace. We develop an approximate analysis for the GCLOCK policy under the Independent Reference Model (IRM) that applies to many database tra ...

2 Searching in high-dimensional spaces: Index structures for improving the performance of multimedia databases

Christian Böhm, Stefan Berchtold, Daniel A. Keim

September 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 3

Publisher: ACM Press

Full text available: pdf(1.39 MB) Additional Information: full citation, abstract, references, citings, index terms

During the last decade, multimedia databases have become increasingly important in many application areas such as medicine, CAD, geography, and molecular biology. An important research issue in the field of multimedia databases is the content-based retrieval of similar multimedia objects such as images, text, and videos. However, in contrast to searching data in a relational database, a content-based retrieval requires the search of similar objects as a basic functionality of the database system ...

Keywords: Index structures, indexing high-dimensional data, multimedia databases, similarity search

3 Formal approaches to programming: SYNERGY: a new algorithm for property

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1 Searching in high-dimensional spaces: Index structures for improving the performance of multimedia databases

Christian Böhm, Stefan Berchtold, Daniel A. Keim

September 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 3

Publisher: ACM Press

Full text available: pdf(1.39 MB) Additional Information: full citation, abstract, references, citings, index terms

During the last decade, multimedia databases have become increasingly important in many application areas such as medicine, CAD, geography, and molecular biology. An important research issue in the field of multimedia databases is the content-based retrieval of similar multimedia objects such as images, text, and videos. However, in contrast to searching data in a relational database, a content-based retrieval requires the search of similar objects as a basic functionality of the database system ...

Keywords: Index structures, indexing high-dimensional data, multimedia databases, similarity search

2 Optimizing result prefetching in web search engines with segmented indices

Ronny Lempel, Shlomo Moran

February 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 1

Publisher: ACM Press

Full text available: pdf(183.97 KB) Additional Information: full citation, abstract, references, citings, index terms

We study the process in which search engines with segmented indices serve queries. In particular, we investigate the number of result pages that search engines should prepare during the query processing phase.Search engine users have been observed to browse through very few pages of results for queries that they submit. This behavior of users suggests that prefetching many results upon processing an initial query is not efficient, since most of the prefetched results will not be requested by the ...

Keywords: Distributed inverted indices, prefetching, search engines

3 Multidimensional access methods

Volker Gaede, Oliver Günther

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1 Evaluation: Four scorers and seven years ago: the scoring method for MUC-6

Nancy Chinchor

November 1993 **Proceedings of the 6th conference on Message understanding MUC6 '95**

Publisher: Association for Computational Linguistics

Full text available: pdf(405.37 KB) Additional Information: full citation, abstract, references, citings

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2 Machine learning for coreference resolution: from local classification to global ranking

Vincent Ng

June 2005 **Proceedings of the 43rd Annual Meeting on Association for Computational Linguistics ACL '05**

Publisher: Association for Computational Linguistics

Full text available: pdf(116.60 KB) Additional Information: full citation, abstract, references

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Full text available: pdf(629.24 KB) Additional Information: full citation, abstract, references, index terms

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4 Answering Clinical Questions with Knowledge-Based and Statistical Techniques
Dina Demner-Fushman, Jimmy Lin
March 2007 **Computational Linguistics**, Volume 33 Issue 1
Publisher: MIT Press
Full text available: pdf(295.45 KB) Additional Information: full citation, abstract

The combination of recent developments in question-answering research and the availability of unparalleled resources developed specifically for automatic semantic processing of text in the medical domain provides a unique opportunity to explore complex question answering in the domain of clinical medicine. This article presents a system designed to satisfy the information needs of physicians practicing evidence-based medicine. We have developed a series of knowledge extractors, which employ a ...

5 Optimizing result prefetching in web search engines with segmented indices
Ronny Lempel, Shlomo Moran
February 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 1
Publisher: ACM Press
Full text available: pdf(183.97 KB) Additional Information: full citation, abstract, references, citings, index terms

We study the process in which search engines with segmented indices serve queries. In particular, we investigate the number of result pages that search engines should prepare during the query processing phase.Search engine users have been observed to browse through very few pages of results for queries that they submit. This behavior of users suggests that prefetching many results upon processing an initial query is not efficient, since most of the prefetched results will not be requested by the ...

Keywords: Distributed inverted indices, prefetching, search engines

6 Music: Approximate matching algorithms for music information retrieval using vocal input
Richard L. Kline, Ephraim P. Glinert
November 2003 **Proceedings of the eleventh ACM international conference on Multimedia MULTIMEDIA '03**
Publisher: ACM Press
Full text available: pdf(165.02 KB) Additional Information: full citation, abstract, references, citings, index terms

Effective use of multimedia collections requires efficient and intuitive methods of searching and browsing. This work considers databases which store music and explores how these may best be searched by providing input queries in some musical form. For the average person, humming several notes of the desired melody is the most straightforward method for providing this input, but such input is very likely to contain several errors. Previously proposed implementations of so-called *query-by-humm ...*

Keywords: *music information retrieval, query by humming*

7 LOF: identifying density-based local outliers
Markus M. Breunig, Hans-Peter Kriegel, Raymond T. Ng, Jörg Sander
May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data SIGMOD '00**, Volume 29 Issue 2
Publisher: ACM Press
Full text available: pdf(263.81 KB) Additional Information: full citation, abstract, references, citings, index

terms

For many KDD applications, such as detecting criminal activities in E-commerce, finding the rare instances or the outliers, can be more interesting than finding the common patterns. Existing work in outlier detection regards being an outlier as a binary property. In this paper, we contend that for many scenarios, it is more meaningful to assign to each object a *degree* of being an outlier. This degree is called the *local outlier factor* (LOF) of an object. It is *local* in th ...

Keywords: database mining, outlier detection

8 Evaluation: Overview of results of the MUC-6 evaluation

Beth M. Sundheim

November 1993 **Proceedings of the 6th conference on Message understanding MUC6 '95**

Publisher: Association for Computational Linguistics

Full text available: pdf(1.56 MB) Additional Information: full citation, abstract, references, citings

The latest in a series of natural language processing system evaluations was concluded in October 1995 and was the topic of the Sixth Message Understanding Conference (MUC-6) in November. Participants were invited to enter their systems in as many as four different task-oriented evaluations. The Named Entity and Coreference tasks entailed Standard Generalized Markup Language (SGML) annotation of texts and were being conducted for the first time. The other two tasks, Template Element and Scenario ...

9 Perspectives on testing for programming aptitude

Jack M. Wolfe

January 1971 **Proceedings of the 1971 26th annual conference**

Publisher: ACM Press

Full text available: pdf(918.38 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper discusses limitations of programming aptitude tests. The use of multiple-choice type questions, the testwiseness of the college graduate group, and the inclusion of questions of mathematical information tend to diminish the effectiveness of such tests as predictors of success in business programming. Timed tests favor the faster worker over the slower one who is often more accurate and of equal or better logical capability. The usual criterion of a test's validity is itself often ...

Keywords: Aptitude, Aptitude tests, Criterion, Evaluation, Multiple choice questions, Occupational groups, Programming aptitude, Reliability, Tests, Timed tests, Validity

10 Objective quality ranking of computing journals

Pairin Katerattanakul, Bernard Han, Soongoo Hong

October 2003 **Communications of the ACM**, Volume 46 Issue 10

Publisher: ACM Press

Full text available: pdf(84.99 KB) html(18.23 KB) Additional Information: full citation, abstract, references, citings, index terms

Citation analysis, which provides a clear picture of actual use of journals and their articles, is an effective way to determine a journal's influence.

11 Selection of computer personnel: Selection of systems analysts and programmer trainees

Raymond M. Berger

June 1968 **Proceedings of the Sixth SIGCPR conference on Computer personnel research SIGCPR '68**
Publisher: ACM Press
Full text available: pdf(861.44 KB) Additional Information: full citation, abstract, citings

The subject of this talk is primarily the selection of Systems Analysts. Time permitting, I shall also discuss work done on the selection of programmer trainees. The research program, as many of you have heard described in previous talks, was divided into three phases. The first was the job analysis phase in which 17 job dimensions were revealed to cover systems analyst and programmer positions. The second phase dealt with the development of criterion tests for evaluating programmer and systems ...

12 The need for accurate alignment in natural language system evaluation
Andrew Kehler, John Bear, Douglas Appelt
June 2001 **Computational Linguistics**, Volume 27 Issue 2
Publisher: MIT Press
Full text available: pdf(1.37 MB) Publisher Site Additional Information: full citation, abstract, references

As evaluations of computational linguistics technology progress toward higher-level interpretation tasks, the problem of determining alignments between system responses and answer key entries may become less straightforward. We present an extensive analysis of the alignment procedure used in the MUC-6 evaluation of information extraction technology, which reveals effects that interfere with the stated goals of the evaluation. These effects are shown to be pervasive enough that they have the pote ...

13 Eye gaze and multimodal integration patterns: Individual differences in multimodal integration patterns: what are they and why do they exist?
Sharon Oviatt, Rebecca Lunsford, Rachel Coulston
April 2005 **Proceedings of the SIGCHI conference on Human factors in computing systems CHI '05**
Publisher: ACM Press
Full text available: pdf(393.16 KB) Additional Information: full citation, abstract, references, citings, index terms

Techniques for information fusion are at the heart of multimodal system design. To develop new user-adaptive approaches for multimodal fusion, the present research investigated the stability and underlying cause of major individual differences that have been documented between users in their multimodal integration pattern. Longitudinal data were collected from 25 adults as they interacted with a map system over six weeks. Analyses of 1,100 multimodal constructions revealed that everyone had a do ...

Keywords: commands, conversations, disfluencies, errors, impulsive-reflective cognitive style, individual differences, multimodal integration patterns, simultaneous or sequential input

14 SouthamptonTAC: An adaptive autonomous trading agent
Minghua He, Nicholas R. Jennings
August 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 3
Publisher: ACM Press
Full text available: pdf(571.24 KB) Additional Information: full citation, abstract, references, citings, index terms

Software agents are increasingly being used to represent humans in on-line auctions. Such agents have the advantages of being able to systematically monitor a wide variety of auctions and then make rapid decisions about what bids to place in what auctions. They

can do this continuously and repetitively without losing concentration. Moreover, in complex multiple auction settings, agents may need to modify their behavior in one auction depending on what is happening in another. To provide a means ...

Keywords: On-line auctions, bidding strategy, trading agent competition

15 Information extraction: Comparing human and machine performance for natural language information extraction: results from the Tipster text evaluation
Craig A. Will
September 1993 **Proceedings of a workshop on held at Fredericksburg, Virginia: September 19-23, 1993**
Publisher: Association for Computational Linguistics
Full text available: pdf(1.44 MB) Additional Information: full citation, abstract, references

This paper presents results from a study comparing human performance on the text of natural language information extraction with that of machine extraction systems that were developed as part of the ARPA Tipster program. Information extraction is shown to be a difficult task for both humans and machines. Evidence for one set of text material, English Microelectronics, indicated that a human analyst produces about half the errors as does machine systems.

16 The reliability of analytic and holistic methods in rating students' computer programs
David M. Olson
February 1988 **ACM SIGCSE Bulletin , Proceedings of the nineteenth SIGCSE technical symposium on Computer science education SIGCSE '88**, Volume 20 Issue 1
Publisher: ACM Press
Full text available: pdf(635.37 KB) Additional Information: full citation, abstract, references, citings, index terms

The study examined analytic and holistic methods of scoring students's programs. The sample included 30 students in an introductory computer science class. The inter-rater reliabilities for both scoring methods was significant (analytic, r = .66; holistic, r = .73). The correlation between students' holistic and analytic scores on the programs was moderate (r = .66), indicating that the two scoring methods measure different attributes of a student's program.

17 Retrieval effectiveness of an ontology-based model for information selection
Latifur Khan, Dennis McLeod, Eduard Hovy
January 2004 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 13 Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(278.74 KB) Additional Information: full citation, abstract, citings, index terms, review

Technology in the field of digital media generates huge amounts of nontextual information, audio, video, and images, along with more familiar textual information. The potential for exchange and retrieval of information is vast and daunting. The key problem in achieving efficient and user-friendly retrieval is the development of a search mechanism to guarantee delivery of minimal irrelevant information (high precision) while insuring relevant information is not overlooked (high recall). The tradi ...

Keywords: Audio, Metadata, Ontology, Precision, Recall, SQL

18 Spatial representations of knowledge: validity and applications to information science
Terry Noreault, John F. Dovidio
May 1981 **ACM SIGIR Forum , Proceedings of the 4th annual international ACM**

SIGIR conference on Information storage and retrieval: theoretical issues in information retrieval SIGIR '81, Volume 16 Issue 1
Publisher: ACM Press
Full text available: pdf(570.54 KB) Additional Information: full citation, abstract, references

This research examined the relationship between subjects' knowledge of an area and their similarity ratings of pairs of concepts. Knowledge was operationalized as (1) test score performance, and (2) correspondence with an expert's similarity judgments. Subjects (n=55) were exposed to a three-week module on social psychology as part of their introductory psychology course. At the end of this course segment they were administered an examination and, later, a term similarity questionnaire. Students ...

19 Training a selection function for extraction
Chin-Yew Lin
November 1999 **Proceedings of the eighth international conference on Information and knowledge management CIKM '99**
Publisher: ACM Press
Full text available: pdf(2.38 MB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we compare performance of several heuristics in generating informative generic/query-oriented extracts for newspaper articles in order to learn how topic prominence affects the performance of each heuristic. We study how different query types can affect the performance of each heuristic and discuss the possibility of using machine learning algorithms to automatically learn good combination functions to combine several heuristics. We also briefly describe the design, implementa ...

Keywords: automated text summarization, summary evaluation, topic extraction

20 Disambiguation: Web-a-where: geotagging web content
Einat Amitay, Nadav Har'El, Ron Sivan, Aya Soffer
July 2004 **Proceedings of the 27th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '04**
Publisher: ACM Press
Full text available: pdf(198.87 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We describe Web-a-Where, a system for associating geography with Web pages. Web-a-Where locates mentions of places and determines the place each name refers to. In addition, it assigns to each page a geographic *focus* --- a locality that the page discusses as a whole. The tagging process is simple and fast, aimed to be applied to large collections of Web pages and to facilitate a variety of location-based applications and data analyses.Geotagging involves arbitrating two types of ambiguiti ...

Keywords: disambiguation, gazetteer, geographic tagging, information retrieval, natural language processing, text mining

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